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NOTICE OF ALLOWANCE AND FEE(S) DUE

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07/10/2008

Century IP Group, Inc. [IBM IL] c/o IBM CORPORATION, T.J. WATSON RESEARCH CENTER P.O. BOX 218 YORKTOWN HEIGHTS, NY 10598 EXAMINER

LEVIN, NAUM B

ART UNIT PAPER NUMBER

2825

DATE MAILED: 07/10/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091.934	03/06/2002	Amir Alon	IL920020007US1	7058

TITLE OF INVENTION: INTERCONNECT-AWARE METHODOLOGY FOR INTEGRATED CIRCUIT DESIGN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/10/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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appropriate. All further	correspondence includir ed below or directed oth	ng the Pate	ent, advance or	rders and notification	ıofm	naintenance fees w	ill be	mailed to the current	correspondence address as rate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Bi	ock 1 for any o	change of address)		Fee(c) Transmittal Thi	e certif	cate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
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c/o IBM CORPO P.O. BOX 218	oup, Inc. [IBM IL] ORATION, T.J. WA	TSON F	RESEARCH	CENTER	I her State addre trans	reby certify that thes Postal Service weeksed to the Mail smitted to the USP	is Fee(s vith suf Stop TO (57	b) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the date	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
YORKTOWN I	HEIGHTS, NY 1059	98							(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/091,934	03/06/2002			Amir Alon			IL	920020007US1	7058
TITLE OF INVENTION	I: INTERCONNECT-AV	VARE ME	THODOLOG	Y FOR INTEGRATE	D CII	RCUIT DESIGN			
APPLN. TYPE	SMALL ENTITY	ISSUE	FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$	61440	\$300		\$0		\$1740	10/10/2008
EXAM	IINER	AR	T UNIT	CLASS-SUBCLAS	s				
LEVIN, I	NAUM B		2825	716-010000		•			
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee A	Address" (37	2. For printing on the patent front page, list					
_ ′	ondence address (or Cha	nge of Cor	respondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form			n form	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			a Customer	2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE P	RINTED ON	ΓΗΕ PATENT (print	or typ	pe)			
PLEASE NOTE: Un recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Comp	ified below oletion of th	v, no assignee his form is NO	data will appear on t T a substitute for filin	the pa	atent. If an assign	ee is id	entified below, the do	ocument has been filed for
(A) NAME OF ASSI				(B) RESIDENCE: (_	_			
Please check the appropr	riate assignee category or	categories	(will not be pr	inted on the patent):		Individual 🖵 Co	orporati	on or other private gro	up entity Government
4a. The following fee(s)	are submitted:		41	Payment of Fee(s):				iously paid issue fee s	· ·
Issue Fee			-10	A check is enclo	sed.				Movie above)
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any						
Advance Order -	# of Copies			overpayment, to	ereby Depos	sit Account Number	ge the i	required fee(s), any def (enclose ar	n extra copy of this form).
5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY statu		CER 1 27	□ h Amuliaantia m	. 1	en eleimine CMAI	T END	CITY status. See 37 CF	ED 1.27(~)(2)
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will	not be accepte	d from anyone other t					e assignee or other party in
interest as shown by the	records of the United Sta	tes Patent	and Trademark	Office.					
Authorized Signature						Date			
Typed or printed name						Registration N	To		
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu 'irginia 22313-1450. DC 113-1450.	EFR 1.311. U.S.C. 12 USPTO. ' rden, shoul NOT SEM	The information 2 and 37 CFR Time will vary do be sent to the ND FEES OR	on is required to obtain 1.14. This collection depending upon the Chief Information COMPLETED FORM	n or re is esti indivi Office AS TC	etain a benefit by t imated to take 12 n idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ ninutes mment Traden 5. SENI	ic which is to file (and to complete, including s on the amount of tin ark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete attment of Commerce, P.O. for Patents, P.O. Box 1450,
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60232 75	90 07/10/2008		EXAM	INER
Century IP Group	o, Inc. [IBM IL]	LEVIN, NAUM B		
	ATION, T.J. WATSO	ART UNIT PAPER NUMBER		
P.O. BOX 218 YORKTOWN HEIGHTS, NY 10598			2825 DATE MAILED: 07/10/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) lo 10 Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. Examiner's Amendment/Comment		Application No.	Applicant(s)
Notice of Allowability		10/001 03/	ALON ET AL
The MAILING DATE of this communication appears on the cover sheet with the correspondence address—All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a blose of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR. 1313 and MPEP 1308. 1. ☑ This communication is responsive to Response 05/05/2008. 2. ☑ The allowed claim(s) islane 50 and 51. 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* o) ☐ None of the: 1. ☐ Certified opies of the priority documents have been received. 2. ☐ Certified opies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Tailure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached Examiner's comment sheet(s) should be labeled as such in the header accordin	Notice of Allowability		
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All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-18) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CPR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to *Response 05/05/2008*. 2. ☑ The allowed claim(s) is/are *50 and 51*. 3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☑ Some* o) ☑ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONNENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment Reparding Review (PTO-948) 5.		NAUW B. LEVIN	2025
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Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) Interview Summary (PTO-948) attached Examiner's Comment regarding Requirement for Deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's Paper No./Mail Date (c) Notice of Draftperson's Patent Drawing Review (PTO-948) attached Examiner's Amendment/Comment Paper No./Mail Date (c) Notice of Draftperson's Patent Drawing Review (PTO-948) attached Examiner's Amendment/Comment Regarding Requirement for Deposit of Biological Material	International Bureau (PCT Rule 17.2(a)).		
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DETAILED ACTION

1. This office action is in response to application 11/091,934 and Response filed on 05/05/2008. Claims 50-51 remain pending in the Application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in e-mail by Agent Suzanne Erez (Registration No. 46,688) on 06/22/2008.

The application has been amended as follows:

- 3. Cancel claims 43-45, 47 and 49.
- 4. Claim 50:

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line 2 replace "may be" with -- is --;
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line 11 replace "may be" with -- is --;

line 11 replace "quasi-TEM" with -- quasi transverse electromagnetic mode (quasi-TEM)--;

line 17 replace "may be" with -- is --.

5. Claim 51:

replace lines 1-3 with:

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-- A computer-readable storage device storing a program for causing a computer to execute a method for modeling a transmission line topology selectable as a design element for a circuit interconnect line of an integrated circuit being designed, wherein the integrated circuit is --;

line 12 replace "may be" with -- is --;

line 13 replace "quasi-TEM" with -- quasi transverse electromagnetic mode (quasi-TEM)--;

line 20 replace "may be" with -- is --.

Allowable Subject Matter

- 6. Claims 50-51 are allowed over prior art of record.
- 7. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or suggest or render obvious:

A method for modeling a transmission line topology selectable as a design element before a physical layout of the integrated circuit carrying analog and mixed signals, the method comprising: calculating low frequency RLC values and high frequency RLC values per unit length, wherein a high frequency limit transverse electromagnetic inductance matrix is calculated from the capacitance using a quasi-transverse electromagnetic mode approximation; calculating actual RLC values for a reduced RLC network, wherein the reduced RLC network correctly describes the behavior of said transmission line topology across a frequency range of interest; and constructing an equivalent RLC network for said transmission line topology such that

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the equivalent RLC network is used by a circuit-level simulator to model said critical interconnect lines.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naum B. Levin whose telephone number is 571-272-1898. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jack Chiang/ Supervisory Patent Examiner, Art Unit 2825

NL